LISTING OF CLAIMS

1. (Previously Presented) An ionic liquid of the general formula

 $K^{\dagger}A^{-}$ (I)

wherein:

K⁺ is a cation selected from:

wherein

 ${\sf R}^{\sf 1}$ to ${\sf R}^{\sf 6}$ are identical or different and are each individually

- H,
- a halogen,

- an alkyl radical (C₁ to C8), which is unsubstituted, or which is partially or fully substituted by F, CI, N(CnF(2n+1-x)Hx)2, O(CnF(2n+1-x)Hx), SO2(CnF(2n+1-x)Hx) or CnF(2n+1-x)Hx wherein 1<n<6 and 0<x≤13</p>
- a phenyl radical which is unsubstituted or which is partially or fully substituted by F, CI, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)_1$ or $C_nF_{(2n+1-x)}H_x$ wherein 1<n<6 and 0<x≤13, or
- one or more pairs of adjacent R¹ to R⁶ can also be an alkylene or alkenylene radical and having up to 8 C atoms, wherein the radical is unsubstituted or partially or fully substituted by halogen, N(C_nF_(2n+1-x)H_x), O(C_nF_(2n+1-x)H_x), SO₂(C_nF_(2n+1-x)H_x) or C_nF_(2n+1-x)H_x wherein 1<n<6 and 0<x≤13</p>

wherein A is an anion selected from

$$[B(OR^{7})_{n}(OR^{8})_{m}(OR^{9})_{o}(OR^{10})_{p}]^{T}$$

wherein

 $0 \le n$, m, o, p ≤ 4 , and m+n+o+p=4, and

R⁷ to R¹⁰ are different or identical and are each, individually:

an aromatic ring selected from a phenyl, anthracenyl and phenanthrenyl ring, which is unsubstituted, or which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_{x_n}$ wherein 1<n<6 and 0<x≤13, or halogen,

an aromatic heterocyclic ring selected from a pyridyl, pyrazyl and pyrimidyl ring, which is unsubstituted, or which is mono-substituted or polysubstituted by $C_nF_{(2n+1-x)}H_{x,}$ wherein 1<n<6 and 0<x≤13, or halogen,

or

an alkyl radical (C_1 to C_8), which is unsubstituted, or which is partially or fully substituted by F, Cl, N($C_nF_{(2n+1-x)}H_x$)₂, O($C_nF_{(2n+1-x)}H_x$), SO₂($C_nF_{(2n+1-x)}H_x$), or $C_nF_{(2n+1-x)}H_x$, wherein 1<n<6 and 0<x≤13.

and wherein one or more pairs of R⁷ to R¹⁰ can also form

an aromatic ring selected from a anthracenylene and phenanthrenylene ring, which is unsubstituted or an aromatic ring selected from a phenylene, naphthylene, anthracenylene and phenanthrenylene ring which is monosubstituted or polysubstituted by $C_0F_{(2n+1-x)}H_{x}$, wherein 1<n<6 and 0<x≤13, or halogen,

an aromatic heterocyclic ring selected from a pyridylene, pyrazylene and pyrimidylene ring, which is unsubstituted, or which is mono-substituted or polysubstituted by $C_nF_{(2n+1-x)}H_{x}$, wherein 1 < n < 6 and $0 < x \le 13$, or halogen,

or

an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or which is partially or fully substituted by halogen, $N(C_nF_{(2n+1-x)}H_x)_2,\ O(C_nF_{(2n+1-x)}H_x),\ SO_2(C_nF_{(2n+1-x)}H_x)\ or\ C_nF_{(2n+1-x)}H_x$ wherein 1<n<6 and 0<x<13

or OR^7 to OR^{10} ,individually or together,

are an aromatic having 6 to 14 C atoms and which is a dicarboxyl, oxysulfonyl or oxycarbonyl radical, which is unsubstituted, or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)_1$, $SO_2(C_nF_{(2n+1-x)}H_x)_2$ or $C_nF_{(2n+1-x)}H_x$, wherein 1<n<6 and 0<x≤13

or

are aliphatic having 1 to 6 C atoms and which is a carboxyl, dicarboxyl, oxysulfonyl or oxycarbonyl radical, which is

unsubstituted, or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$, wherein 1<n<6 and 0<x≤13.

- 2. (**original claim**) An ionic liquid according to claim 1, wherein at least one of R^1 to R^6 of the cation is an alkyl radical which is unsubstituted or partially or fully substituted by F, CI, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein 1<n<6 and 0<x≤13.
- 3. (**original claim**) An ionic liquid according to claim 1, wherein at least one of R^1 to R^6 of the cation is a phenyl radical which is unsubstituted or partially or fully substituted by F, CI, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein 1<n<6 and 0<x≤13.
- 4. (**original claim**) An ionic liquid according to claim 1, wherein at least a pair of R^1 to R^6 of the cation is an alkylene or alkenylene radical which is unsubstituted or partially or fully substituted by halogen, $N(C_nF_{(2n+1-x)}H_x)$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein 1<n<6 and 0<x≤13.
- 5. (**original claim**) An ionic liquid according to claim 1, wherein at least one of R^7 to R^{10} of the anion is an alkyl radical which is unsubstituted or partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$, or $C_nF_{(2n+1-x)}H_x$, wherein 1<n<6 and 0<x≤13.
- 6. (**original claim**) An ionic liquid according to claim 1, wherein at least one pair of R⁷ to R¹⁰ of the anion is an alkylene or alkenylene radical which is unsubstituted or partially or fully substituted by a halogen,

 $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$ wherein 1<n<6 and 0<x≤13.

- 7. (**Previously Presented**) An ionic liquid according to claim 1, wherein at least one of R^7 to R^{10} of the anion is an aromatic ring selected from a phenyl, anthracenyl and phenanthrenyl ring, which is unsubstituted, or which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_{x}$, wherein 1<n<6 and 0<x≤13, or by a halogen.
- 8. (**Previously Presented**) An ionic liquid according to claim 1, wherein at least one of R^7 to R^{10} of the anion is an aromatic heterocyclic ring selected from a pyridyl, pyrazyl and pyrimidyl ring, which is unsubstituted, or which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein 1<n<6 and 0<x≤13, or (F, Cl or Br).
- 9. (**Previously Presented**) An ionic liquid according to claim 1, wherein at least one pair of R^7 to R^{10} of the anion is an aromatic ring selected from an anthracenylene and phenanthrenylene ring, which is unsubstituted or a phenylene, naphthylene, anthracenylene and phenanthrenylene ring, which is monosubstituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein 1<n<6 and 0<x≤13, or halogen.
- 10. (**original claim**) An ionic liquid according to claim 1, wherein at least one pair of R^7 to R^{10} of the anion is an aromatic heterocyclic ring selected from a pyridylene, pyrazylene and pyrimidylene ring, which is unsubstituted, or which is mono-substituted or polysubstituted by $C_nF_{(2n+1-x)}H_x$, wherein 1<n<6 and 0<x<13, or by halogen.

- 11. (withdrawn) An electrochemical cell comprising a cathode, an anode, a separator, and the ionic liquid of claim 1.
- 12. (withdrawn) A supercapacitor comprised of at least a pair of electrodes, a separator, and the ionic liquid of claim 1.
- 13. (withdrawn) An electrolyte composition comprising an ionic liquid of claim 1 and an aprotic solvent.
- 14. (withdrawn) An electrolyte composition comprising an ionic liquid of claim 1 and a conductive salt.
- 15. (**original claim**) A method for making an ionic liquid according to claim 1, comprising reacting a chloride salt of the formula K⁺Cl⁻ with a lithium salt of the formula Li⁺A⁻ within an aprotic solvent.
- 16. (Previously presented) An ionic liquid according to claim 1, selected from :
- 1-ethyl-3-methylimidazolium bis [1,2-benzenediolato-O,O'] borate,
- 1-ethyl-3-methylimidazolium bis[oxalato]borate, and
- 1-ethyl-3-methylimidazolium bis[salicylato]borate.
- 17. (**Previously Presented**) A compound according to claim 16, wherein said compound is:

1-ethyl-3-methylimidazolium bis [1,2-benzenediolato-O,O'] borate.

18. **(Previously presented)** A compound according to claim 1, wherein A⁻ is

bis[oxalato]borate.

19. (Previously presented) A compound according to claim 1, wherein A⁻ is

bis[salicylato]borate.

20. (Previously presented) A compound according to claim 16, wherein said compound is:

1-ethyl-3-methylimidazolium bis[oxalato]borate.

21. **(Previously presented)** A compound according to claim 1, wherein OR⁷ to OR¹⁰, individually or together,

are aliphatic having 1 to 6 C atoms and which is a carboxyl, dicarboxyl, oxysulfonyl or oxycarbonyl radical, which is unsubstituted, or which is partially or fully substituted by F, Cl, $N(C_nF_{(2n+1-x)}H_x)_2$, $O(C_nF_{(2n+1-x)}H_x)$, $SO_2(C_nF_{(2n+1-x)}H_x)$ or $C_nF_{(2n+1-x)}H_x$, wherein 1<n<6 and 0<x≤13.

22. (**New**) A compound according to claim 1, wherein A⁻ is bis [1,2-benzenediolato-O,O'] borate.